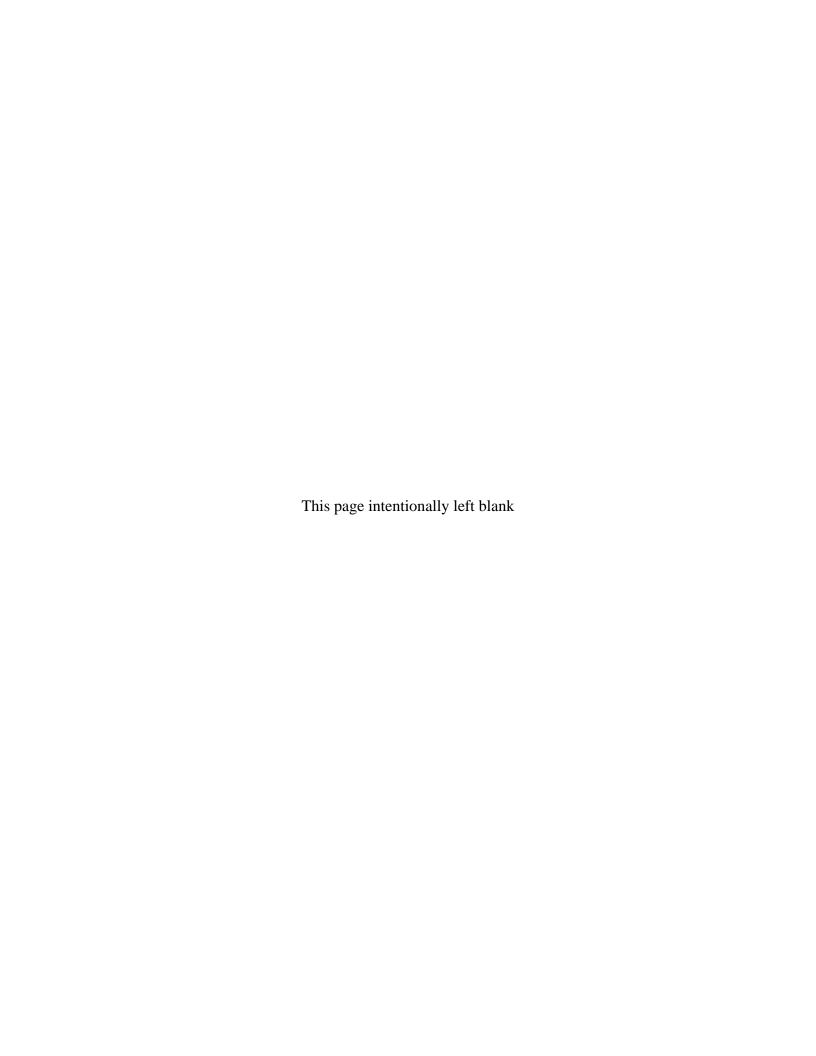
#### ANNEX C to ATTACHMENT F

# CROSSWALK OF TRANSURANIC WASTE BASELINE INVENTORY REPORT REVISION 2/3 AND 2003 UPDATE WASTE STREAMS



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#### DATA-F-C-1.0 INTRODUCTION

- 2 This 2003 Update Report contains the update to the Transuranic Waste Baseline Inventory
- 3 Report, Revision 2 (TWBIR Revision 2) (DOE 1995) and TWBIR Revision 3 (DOE 1996). The
- 4 U.S. Environmental Protection Agency (EPA) is interested in the differences in the inventory
- 5 between TWBIR Revisions 2/3 and this 2003 Update Report. The EPA used the TWBIR
- 6 Revisions 2/3 data for the Compliance Certification Decision (EPA 1998) to initially certify
- 7 Waste Isolation Pilot Plant (WIPP).

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- 8 A crosswalk of the waste streams and a qualitative discussion of the changes are provided in this
- 9 annex. Each transuranic (TRU) waste site with changes in their waste streams was requested to
- 10 provide an explanation for the changes. There were no changes in the waste streams from the
- 11 University of Missouri Research Reactor (MURR). New sites have been included in this update
- but are not included in this Annex. The new sites are: Framatome (FR), Hanford-River
- 13 Protection (RP), General Electric Vallecitos Nuclear Center (GE), Separations Process Research
- 14 Unit (SPRU), Babcock & Wilcox-Lynchburg (BL), and Knolls Atomic Power Laboratory-
- Nuclear Fuels Services (KN). Waste streams presented in this section include waste streams
- 16 from both Annex I and Annex J.
- 17 In addition, several sites no longer have TRU waste on their sites. Those sites are: ARCO
- Medical Products (AM), Pantex (PX), Teledyne-Brown (TB), and Ames Laboratory (AL).
- Mound (MD) TRU waste is being shipped to and accounted for at Savannah River Site (SRS).
- 20 In the tables "NA" in the TWBIR Revision 2 Waste Streams column identifies a new waste
- stream in the 2003 Update. "NA" in the 2003 Update Report Waste Streams column identifies a
- deleted waste stream from TWBIR Revision 2.

#### 23 DATA-F-C-1.1 Argonne National Laboratory-East

- 24 During the Argonne National Laboratory-East (ANL-E) 1996 data generation period for the
- 25 TWBIR, the information submitted was the best available at the time. The ANL-E had a large
- number of bins (typically 3.5 m<sup>3</sup> (123 ft<sup>3</sup>)<sup>1</sup> in size), in inventory that contained waste dating back
- 27 to the late 1980s. These bins, containing various sized containers, were assigned a TRU waste
- designation by the generators based on the knowledge of the waste generation process. As a
- 29 result, some of the waste may or may not have been TRU. There also was a quantity of various-
- 30 sized containers that contained liquids or solids that made it difficult to determine what the final
- 31 volume would be.
- 32 Subsequent to the TWBIR Revision 3 submittal, ANL-E embarked on an aggressive campaign to
- characterize, treat, and where appropriate repackage the TRU waste from the bins and containers
- 34 identified and reported in the TWBIR Revision 3. Whenever possible, repackaging was
- 35 performed that resulted in the waste being placed into 55-gallon drums for enhanced inventory
- 36 identification and tracking, and also in preparation for eventual characterization and disposal.
- 37 This repackaging process has resulted in a refinement of ANL-E's ability to more accurately
- 38 quantify the TRU waste.

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 $<sup>^{1}</sup>$  The conversion factor used throughout this section is 1 m $^{3}$  (35.32 ft $^{3}$ ).

- 1 In addition to improved inventory accountability through ANL-E repackaging efforts, an
- 2 increase in the volume of TRU waste on hand at ANL-E resulted. Additionally, more TRU
- 3 waste was generated since the TWBIR Revision 3 as a result of aggressive site-wide cleanup
- 4 activities performed during the late 1990s.
- 5 Table DATA-F-C-1 contains the crosswalk of the waste streams from TWBIR Revision 2 to the
- 6 2003 Update Report.

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## Table DATA-F-C-1. Argonne National Laboratory-East Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
AE-W041, AE-W042, AE-T001	AE-T001
AE-W038, AE-W039, AE-W040, AE-T003	AE-T003
AE-T009	AE-T009

#### DATA-F-C-1.2 Argonne National Laboratory-West

- The increase in the TWBIR Revision 2 quantity of 26 m<sup>3</sup> (918 ft<sup>3</sup>) to the 2003 Update Report
- quantity of 306 m<sup>3</sup> (10,808 ft<sup>3</sup>) is caused by the inclusion of the waste volume that is suspect and
- may be TRU with waste that is known to be TRU.
- 13 The 280 m<sup>3</sup> (9,890 ft<sup>3</sup>) of suspect TRU waste is difficult to characterize since it is typically
- 14 mixed with highly radioactive waste and stored inside sealed steel in-ground silos at the ANL-
- 15 Radioactive Scrap and Waste facility. Many of the suspect TRU silos were loaded in the 1960s
- and 1970s and do not have detailed inventory records that call out TRU isotopes.
- 17 A request for funding has been made to design and build a remote-handled waste treatment
- facility to unload, sort, characterize, treat and repackage the waste in these silos. Until this
- 19 facility begins operation (scheduled in 2009), it is believed that it is wise to give an upper bound
- 20 estimate of the Argonne National Laboratory-West (ANL-W) TRU waste that could potentially
- 21 go to WIPP for disposal.
- It may be important to note that the 306 m<sup>3</sup> (10,808 ft<sup>3</sup>) number is the TRU inventory figure that
- 23 ANL-W reported to the Inspector General during their April 2002 survey of remote-handled
- 24 TRU waste site generator activities.
- Table DATA-F-C-2 contains the crosswalk of the waste streams from the TWBIR Revision 2 to
- the 2003 Update Report.

#### 27 DATA-F-C-1.3 Battelle Columbus Laboratories

- 28 The initial baseline document reported only one waste stream BC-T001 for Battelle Columbus
- 29 Laboratories (BCL). This waste has been repackaged and characterized. As a result, better data
- were used to define multiple waste streams.

## Table DATA-F-C-2. Argonne National Laboratory-West Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
AW-N026.82	AW-N026.82
AW-N027.531	AW-N027.531
AW-T029.1323	AW-W029
AW-T030.1321	N/A
AW-T031.1322	AW-T031.1322
AW-T032-1324	N/A
AW-T033.1325	AW-T033.1325
AW-T034.1327	N/A
AW-T035.1326	N/A
AW-W012.10	AW-W012.10
AW-W016.20	N/A
AW-W018	AW-W018
AW-W019	AW-W019
AW-W020.13	AW-W20.13
AW-W021.16	N/A
AW-W022.22	N/A
AW-W028	AW-W028
N/A	AW-W046
N/A	AW-W047
N/A	AW-W048
N/A	AW-W049

- 3 The inventory volume for the initial baseline of 580 m<sup>3</sup> (20,486 ft<sup>3</sup>) was an estimate based on the
- 4 storage vault and container dimensions and included the storage vaults, containers, and the
- 5 research hot-cells internal volume, and all utilities. The current inventory of 35 m<sup>3</sup> (1,236 ft<sup>3</sup>) is
- 6 well documented and characterized. An extensive sorting, segregation, compaction, and
- 7 decontamination process reduced the initial inventory estimate by approximately 95 percent.
- 8 The weight-dose-to-curie computer modeling program and database developed by the project
- 9 allowed for the segregation of low-level waste from the TRU waste and helped reduce the initial
- 10 inventory.

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- 11 The waste matrix code for the initial inventory was S5400. The revised inventory is well defined
- and the Central Characterization Project (CCP) Acceptable Knowledge (AK) documentation is
- complete. New waste matrix codes for the waste streams were assigned. For example, there are
- several absorbed liquid waste streams and resins that require an S series waste matrix code. In
- addition, the Carlsbad Field Office (CBFO) has better defined the requirements for waste
- designation since the initial inventory baseline was issued.
- 17 Finally, TRUCON Codes were assigned for the new waste streams and were not known or
- 18 required for RH-TRU for the initial inventory.

## Table DATA-F-C-3 contains the crosswalk of waste streams from TWBIR Revision 2 to the 2003 Update Report for BCL.

## Table DATA-F-C-3. Battelle Columbus Laboratories Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
BC-T001	BCLRH-T001, BCLRH-T002, BCLRH-T003, BCLRH-T004, BCLRH-T005, BCLRH-T006, BCLRH-T007, BCLRH-T008, BCLRH-T009, BCLRH-T010, BCLRH-MT01, BCLRH-T011
N/A	BCLCH-MT01

### 5 DATA-F-C-1.4 Bettis Atomic Power Laboratory

- 6 The 1996 inventory report for Bettis Atomic Power Laboratory (BAPL) listed five waste
- 7 streams: BT-T001 through BT-T005. Waste streams BT-T004 and BT-T005 were deleted, as
- 8 these were radioactive sources that were subsequently placed in the Offsite Source Recovery
- 9 (OSR) database. Waste stream BT-T003 consisted of waste containing uranium-233. As
- uranium-233 is no longer considered TRU from a waste disposal standpoint, this waste stream
- was deleted. This waste will be disposed of at a DOE low-level waste disposal site. Records
- 12 indicate that the 1996 BT-T001 and BT-T002 volumes were 1.95 m<sup>3</sup> (68.87 ft<sup>3</sup>) and 17.6 m<sup>3</sup>
- 13 (621.6 ft<sup>3</sup>) respectively—essentially the same as the 2003 inventory values of 2 m<sup>3</sup> (70.64 ft<sup>3</sup>)
- 14 and 18.6 m<sup>3</sup> (656.95 ft<sup>3</sup>).

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### 15 DATA-F-C-1.5 Energy Technology Engineering Center

- 16 The original Energy Technology Engineering Center (ETEC) (1988) TRU waste was stored in
- 17 12 drums and identified as two waste streams in 1995. That waste has been further characterized
- and is now identified as five waste streams based on origin and characteristics. The contents of
- one of the original 12 drums were split into 2 drums to meet Hanford's storage criteria; thus now
- 20 13 drums exist. Radiological properties have been revised based on detailed characterization of
- 21 the ET-R2-D107 and ET-C2-SEFOR waste streams.
- The drain line residue was originally stored in one-gallon paint cans in concrete-shielded drums,
- 23 plus material in two weir boxes and a 3,000-gallon container. That waste was characterized in
- 24 detail and repackaged into seven drums for shipment to Hanford. Significant volume reduction
- resulted from moving one-gallon cans from shielded drums (2/drum) to unshielded drums
- 26 (28/drum), plus packaging material from a 3,000-gallon container. Radiological and chemical
- 27 property reporting were updated as a result of detailed characterization of the waste during
- 28 repackaging. This waste has all been shipped to Hanford since the date of the inventory
- 29 (September 30, 2002).

## Table DATA-F-C-4 contains the crosswalk of waste streams between TWBIR Revision 2 and the 2003 Update Report for ETEC.

### Table DATA-F-C-4. Energy Technology and Engineering Center Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
ET-T001A	ET-R1-DLR
ET-M001	ET-R2-D107, ET-C2-SEFOR
ET-T001B	ET-C1-B55, ET-C1-D139

#### 3 DATA-F-C-1.6 Hanford Site

- 4 The most significant change from the Hanford Site is the inclusion of the TRU waste from 12
- 5 tanks. The tank waste is maintained by the DOE's Office of River Protection and the waste
- streams are designated with an "RP" identifier. The TRU waste identified for the Richland 6
- 7 Operations Office is designated with an "RL" identifier. A significant change in this update for
- 8 RL is that the inventory information from the Plutonium Finishing Plant has been updated.
- 9 There are many minor updates to other waste streams and additional new waste streams
- 10 identified.

1 2

#### 11 Table DATA-F-C-5 contains the crosswalk of waste streams from TWBIR Revision 2 to the 12 2003 Update Report.

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR **Revision 2 vs 2003 Update Report** 

TWBIR Revision 2 Waste Streams	2003 Update Waste Streams
RL-T101	RL-T101
RL-T102	RL-T102
RL-T103	RL-T103
RL-T104	RL-T104
RL-T105	RL-T105
RL-T106	RL-T106
RL-T107	RL-T107
RL-T108	RL-T108
RL-T109	RL-T109
RL-T110	RL-T110
RL-T112	RL-T112
RL-T113	RL-T113
RL-W114	RL-W114
RL-T115	RL-T115
RL-T116	RL-T116
RL-T118	RL-T118
RL-T120	RL-T120
RL-T121	RL-T121
RL-T122	RL-T122

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Waste Streams
RL-T123	RL-T123
RL-T124	RL-T124
RL-T125	RL-T125
RL-T127	RL-T127
RL-T128	RL-T128
RL-T129	RL-T129
RL-T130	RL-T130
RL-T131	RL-T131
RL-T132	RL-T132
RL-T133	RL-T133
RL-T134	RL-T134
RL-T135	RL-T135
RL-T137	RL-T137
RL-T140	RL-T140
RL-T143	RL-T143
RL-T145	RL-T145
RL-T147	RL-T147
RL-T148	RL-T148
RL-T149	RL-T149
RL-W161	RL-W161
RL-W162	RL-W162
RL-W276	N/A
RL-W277	N/A
RL-W278	N/A
RL-W279	N/A
RL-W280	N/A
RL-W281	N/A
RL-W282	N/A
RL-W283	N/A
RL-W284	RL-W284
RL-W285	N/A
RL-W286	N/A
RL-W287	N/A
RL-W288	N/A
RL-W289	N/A
RL-W290	N/A
RL-W291	N/A
RL-W292	N/A
RL-W293	N/A

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Waste Streams
RL-W294	N/A
RL-W295	N/A
RL-W296	N/A
RL-W297	N/A
RL-W298	N/A
RL-W299	N/A
RL-W300	N/A
RL-W301	N/A
RL-W302	N/A
RL-W303	N/A
RL-W304	N/A
RL-W305	N/A
RL-W306	N/A
RL-W307	N/A
RL-W308	N/A
RL-W309	N/A
RL-W310	N/A
RL-W311	N/A
RL-W312	N/A
RL-W313	N/A
RL-W314	N/A
RL-W315	N/A
RL-W316	N/A
RL-W317	N/A
RL-W318	N/A
RL-W319	N/A
RL-W320	N/A
RL-W321	N/A
RL-W322	N/A
RL-W323	N/A
RL-W324	N/A
RL-W325	N/A
RL-W326	N/A
RL-W327	RL-W327
RL-W328	RL-W328
RL-W329	RL-W329
RL-W330	N/A
RL-W331	N/A
RL-W332	RL-W332

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Waste Streams
RL-W333	RL-W333
RL-W334	N/A
RL-W335	N/A
RL-W336	N/A
RL-W337	N/A
RL-W338	N/A
RL-W339	N/A
RL-W340	N/A
RL-W341	N/A
RL-W342	N/A
RL-W343	N/A
RL-W344	N/A
RL-W345	N/A
RL-W346	N/A
RL-W347	N/A
RL-W348	N/A
RL-W349	N/A
RL-W350	N/A
RL-W351	N/A
RL-W352	N/A
RL-W353	N/A
RL-W354	N/A
RL-W355	N/A
RL-W356	N/A
RL-W357	RL-W357
RL-W358	N/A
RL-W359	N/A
RL-W360	N/A
RL-W361	N/A
RL-W362	N/A
RL-W363	N/A
RL-W364	N/A
RL-W365	N/A
RL-W366	RL-W366
RL-W367	N/A
RL-W368	N/A
RL-W369	N/A
RL-W370	N/A
RL-W371	N/A

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Waste Streams
RL-W372	N/A
RL-W373	N/A
RL-W374	N/A
RL-W375	N/A
RL-W376	N/A
RL-W377	N/A
RL-W378	N/A
RL-W379	N/A
RL-W380	N/A
RL-W381	N/A
RL-W382	RL-W382
RL-W383	N/A
RL-W384	N/A
RL-W385	N/A
RL-W386	N/A
RL-W387	N/A
RL-W388	N/A
RL-W389	N/A
RL-W390	N/A
RL-W391	RL-W391
RL-W392	N/A
RL-W393	N/A
RL-W394	N/A
RL-W395	N/A
RL-W396	N/A
RL-W397	N/A
RL-W398	N/A
RL-W399	N/A
RL-W400	N/A
RL-W401	N/A
RL-W402	N/A
RL-W403	N/A
RL-W404	N/A
RL-W405	N/A
RL-W406	N/A
RL-W407	RL-W407
RL-W408	RL-W408
RL-W409	N/A
RL-W410	N/A

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Waste Streams
RL-W411	N/A
RL-W412	N/A
RL-W413	N/A
RL-W414	N/A
RL-W415	RL-W415
RL-W416	N/A
RL-W417	N/A
RL-W418	RL-W418
RL-W419	RL-W419
RL-W420	RL-W420
RL-W421	RL-W421
RL-W422	N/A
RL-W423	N/A
RL-W424	RL-W424
RL-W425	RL-W425
RL-W426	RL-W426
RL-W427	RL-W427
RL-W428	RL-W428
RL-W429	RL-W429
RL-W430	RL-W430
RL-W431	RL-W431
RL-W432	RL-W432
RL-W433	RL-W433
RL-W434	RL-W434
RL-W435	N/A
RL-W436	RL-W436
RL-W437	RL-W437
RL-W438	RL-W438
RL-W439	N/A
RL-W440	N/A
RL-W441	N/A
RL-W442	N/A
RL-W443	RL-W443
RL-W444	RL-W444
N/A	RL-W445
N/A	RL-W446
Unavailable	RL-W447
Unavailable	RL-W448
Unavailable	RL-W449

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Waste Streams
Unavailable	RL-W450
Unavailable	RL-W451
Unavailable	RL-W452
Unavailable	RL-W453
Unavailable	RL-W454
Unavailable	RL-W455
Unavailable	RL-W456
Unavailable	RL-W457
Unavailable	RL-W458
Unavailable	RL-W459
Unavailable	RL-W460
Unavailable	RL-W461
Unavailable	RL-W462
Unavailable	RL-W463
Unavailable	RL-W464
Unavailable	RL-W465
Unavailable	RL-W466
Unavailable	RL-W467
Unavailable	RL-W468
Unavailable	RL-W469
Unavailable	RL-W470
Unavailable	RL-W471
Unavailable	RL-W472
Unavailable	RL-W473
Unavailable	RL-W474
Unavailable	RL-W475
Unavailable	RL-W476
Unavailable	RL-W477
Unavailable	RL-W478
Unavailable	RL-W479
Unavailable	RL-W480
Unavailable	RL-W481
Unavailable	RL-W482
Unavailable	RL-W483
N/A	RL-W484
N/A	RL-W485
N/A	RL-W486
Unavailable	RL-W487
Unavailable	RL-W488

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Waste Streams
Unavailable	RL-W489
Unavailable	RL-W490
Unavailable	RL-W491
Unavailable	RL-W492
Unavailable	RL-W493
Unavailable	RL-W494
Unavailable	RL-W495
Unavailable	RL-W496
N/A	RL-W497
Unavailable	RL-W498
Unavailable	RL-W499
Unavailable	RL-W500
Unavailable	RL-W501
Unavailable	RL-W502
Unavailable	RL-W503
Unavailable	RL-W504
Unavailable	RL-W505
Unavailable	RL-W506
Unavailable	RL-W507
Unavailable	RL-W508
Unavailable	RL-W509
Unavailable	RL-W510
Unavailable	RL-W511
Unavailable	RL-W512
Unavailable	RL-W513
Unavailable	RL-W514
Unavailable	RL-W515
Unavailable	RL-W516
N/A	RL-W517
Unavailable	RL-W518
Unavailable	RL-W519
Unavailable	RL-W520
Unavailable	RL-W521
Unavailable	RL-W522
Unavailable	RL-W523
Unavailable	RL-W524
Unavailable	RL-W525
Unavailable	RL-W526
Unavailable	RL-W527

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Waste Streams
Unavailable	RL-W528
Unavailable	RL-W529
Unavailable	RL-W530
Unavailable	RL-W531
Unavailable	RL-W532
Unavailable	RL-W533
Unavailable	RL-W534
Unavailable	RL-W535
Unavailable	RL-W536
Unavailable	RL-W537
Unavailable	RL-W538
Unavailable	RL-W539
Unavailable	RL-W540
Unavailable	RL-W541
Unavailable	RL-W542
Unavailable	RL-W543
Unavailable	RL-W544
Unavailable	RL-W545
Unavailable	RL-W546
Unavailable	RL-W547
Unavailable	RL-W548
Unavailable	RL-W549
Unavailable	RL-W550
Unavailable	RL-W551
Unavailable	RL-W552
Unavailable	RL-W553
Unavailable	RL-W554
Unavailable	RL-W555
Unavailable	RL-W556
Unavailable	RL-W557
Unavailable	RL-W558
Unavailable	RL-W559
Unavailable	RL-W560
Unavailable	RL-W561
Unavailable	RL-W562
Unavailable	RL-W563
Unavailable	RL-W564
Unavailable	RL-W565
Unavailable	RL-W566
	•

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Waste Streams
Unavailable	RL-W567
Unavailable	RL-W568
Unavailable	RL-W569
Unavailable	RL-W570
Unavailable	RL-W571
Unavailable	RL-W572
Unavailable	RL-W573
Unavailable	RL-W574
Unavailable	RL-W575
Unavailable	RL-W576
Unavailable	RL-W577
Unavailable	RL-W578
N/A	RL-W579
Unavailable	RL-W580
Unavailable	RL-W581
Unavailable	RL-W582
Unavailable	RL-W583
Unavailable	RL-W584
Unavailable	RL-W585
Unavailable	RL-W586
Unavailable	RL-W587
Unavailable	RL-W588
Unavailable	RL-W589
Unavailable	RL-W590
Unavailable	RL-W591
Unavailable	RL-W592
Unavailable	RL-W593
Unavailable	RL-W594
Unavailable	RL-W595
Unavailable	RL-W596
Unavailable	RL-W597
Unavailable	RL-W598
Unavailable	RL-W599
Unavailable	RL-W600
N/A	RL-W601
Unavailable	RL-W602
N/A	RL-W603
Unavailable	RL-W604
N/A	RL-W605

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Waste Streams
N/A	RL-W606
N/A	RL-W607
N/A	RL-W608
N/A	RL-W609
Unavailable	RL-W610
Unavailable	RL-W612
N/A	RL-W613
N/A	RL-W614
Unavailable	RL-W615
N/A	RL-W616
N/A	RL-W617
N/A	RL-W618
N/A	RL-W619
N/A	RL-W620
N/A	RL-W621
Unavailable	RL-W622
N/A	RL-W623
Unavailable	RL-W625
Unavailable	RL-W626
Unavailable	RL-W627
Unavailable	RL-W628
Unavailable	RL-W629
Unavailable	RL-W630
Unavailable	RL-W631
Unavailable	RL-W632
Unavailable	RL-W633
N/A	RL-W634
Unavailable	RL-W635
Unavailable	RL-W636
Unavailable	RL-W637
Unavailable	RL-W638
Unavailable	RL-W639
Unavailable	RL-W640
Unavailable	RL-W641
Unavailable	RL-W642
Unavailable	RL-W643
Unavailable	RL-W644
Unavailable	RL-W645
Unavailable	RL-W646
Unavanable	KL-W040

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Waste Streams
Unavailable	RL-W647
Unavailable	RL-W648
Unavailable	RL-W649
Unavailable	RL-W650
Unavailable	RL-W651
Unavailable	RL-W652
Unavailable	RL-W653
Unavailable	RL-W654
Unavailable	RL-W655
Unavailable	RL-W656
Unavailable	RL-W657
N/A	RL-W658
Unavailable	RL-W659
Unavailable	RL-W660
Unavailable	RL-W661
Unavailable	RL-W662
N/A	RL-W663
Unavailable	RL-W664
Unavailable	RL-W665
Unavailable	RL-W666
Unavailable	RL-W667
Unavailable	RL-W668
Unavailable	RL-W669
Unavailable	RL-W670
N/A	RL-W671
N/A	RL-W672
Unavailable	RL-W673
N/A	RL-W674
N/A	RL-W675
Unavailable	RL-W676
N/A	RL-W677
Unavailable	RL-W678
Unavailable	RL-W679
Unavailable	RL-W680
N/A	RL-W681
N/A	RL-W682
N/A	RL-W683
N/A	RL-W684
N/A	RL-W685

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

2003 Update Waste Streams
RL-W686
RL-W687
RL-W688
RL-W689
RL-W690
RL-W691
RL-W692
RL-W693
RL-W694
RL-W695
RL-W696
RL-W697
RL-W698
RL-W699
RL-W700
RL-W701
RL-W702
RL-W703
RL-W704
RL-W705
RL-W706
RL-W707
RL-W708
RL-W709
RL-W710
RL-W711
RL-W712
RL-W713
RL-W714
RL-W715
RL-W716
RL-W717
RL-W718
RL-W719
RL-W720
RL-W721
RL-W722
RL-W723
RL-W724

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Waste Streams
Unavailable	RL-W725
Unavailable	RL-W726
Unavailable	RL-W727
Unavailable	RL-W728
Unavailable	RL-W729
Unavailable	RL-W730
Unavailable	RL-W731
Unavailable	RL-W732
Unavailable	RL-W733
Unavailable	RL-W734
Unavailable	RL-W735
Unavailable	RL-W736
Unavailable	RL-W737
Unavailable	RL-W738
Unavailable	RL-W739
Unavailable	RL-W740
Unavailable	RL-W741
Unavailable	RL-W742
Unavailable	RL-W743
Unavailable	RL-W744
Unavailable	RL-W745
Unavailable	RL-W746
Unavailable	RL-W747
Unavailable	RL-W748
Unavailable	RL-W749
Unavailable	RL-W750
Unavailable	RL-W751
Unavailable	RL-W752
Unavailable	RL-W753
Unavailable	RLW-756
RL-Z001	RL-Z001
N/A	RL-Z002
N/A	RL-Z003

### 1 DATA-F-C.1.7 Idaho National Engineering and Environmental Laboratory

2 The most significant change at the Idaho National Engineering and Environmental Laboratory

18

3 (INEEL) is that the legacy contact-handled (CH)-TRU waste will be processed through the

- Advanced Mixed Waste Treatment Facility. Plans are for the CH-TRU debris waste to be 1
- 2 compacted in the facility. An average of four 55-gallon drums that have been compacted will be
- 3 placed into a 100-gallon drum for shipment to the WIPP. With the compaction of the debris
- 4 waste, the mass of the cellulosic, plastic, and rubber (CPR) materials has increased.
- 5 The CH-TRU homogeneous waste will be overpacked into the 10-drum overpack (TDOP – 10
- 6 55-gallon drums will be placed in the TDOP) for shipment to WIPP.
- 7 For the RH-TRU waste, the data in TWBIR Revision 3 included waste that was potentially RH-
- 8 TRU waste, as well as waste known to be RH-TRU waste. The data for the 2003 Update Report
- 9 only addresses waste that is known to be RH-TRU waste; therefore, the volume has decreased.
- 10 Table DATA-F-C-6 contains the crosswalk of waste streams from TWBIR Revision 2 to the
- 2003 Update Report for the INEEL. 11

#### 12 **DATA-F-C-1.8** Knolls Atomic Power Laboratory

- 13 The moderate increase of the projected volumes of TRU waste for the Knolls Atomic Power
- Laboratory (KAPL) waste streams KA-T001 and KA-W016 between the 1995 and 2003 14
- inventory reporting periods are a result of improved estimates of material that is expected to be 15
- generated, characterized, and packaged in its final waste form. 16
- The TRU waste inventory volumes listed in 1995 for waste stream KA-T001 stored in final form 17
- was erroneously listed as 2.5 m<sup>3</sup> (88.3 ft<sup>3</sup>). In 1995, a small amount of TRU waste had been 18
- generated  $-0.2 \text{ m}^3$  (7.06 ft<sup>3</sup>) as generated waste form volume. At the time, there was no volume 19
- of TRU waste stored in its final waste form. The 2.5 m<sup>3</sup> (88.3 ft<sup>3</sup>) listed in the inventory report 20
- was the projected volume of TRU waste had the 0.2 m<sup>3</sup> (7.06 ft<sup>3</sup>) been in its final waste form. 21
- The 1995 inventory report should have indicated 0 m<sup>3</sup> of TRU waste in its final waste form. The 22
- 2003 value is 0 m<sup>3</sup>, since there is no TRU waste in its final waste form. 23

Table DATA-F-C-6. Idaho National Engineering and Environmental Laboratory Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
IN-W112	N/A
IN-W139.627, IN-W161.231, IN-W161.806, IN-W166.151,	IN-BN-510
IN-W166.928, IN-W169-191, IN-W169-192, IN-W169.193,	
IN-W169.194, IN-W169.985, IN-W170.189, IN-W170.938,	
IN-W171.184, IN-W171.801, IN-W172.182, IN-W172.911,	
IN-W186.187, IN-W187.1094, IN-W187.121, IN-W189.1048,	
IN-W189.131, IN-W197.196, IN-W197.197, IN-W197.198,	
IN-W197.802, IN-W197.803, IN-W198.202, IN-W198.203,	
IN-W198.204, IN-W198.205, IN-W198.205, IN-W198.804,	
IN-W199.1039, IN-W199.209, IN-W202.1092, IN-W202.224,	
IN-W203.1081, IN-W203.210, IN-W203.211, IN-W203.212,	
IN-W204.215, IN-W204.216, IN-W204.217, IN-W205.1086,	
IN-W205.1087, IN-W205.220, IN-W206.935, IN-W206.936,	

# Table DATA-F-C-6. Idaho National Engineering and Environmental Laboratory Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
IN-W207.238, IN-W207.980, IN-W207.981, IN-W208.242,	
IN-W208.243, IN-W208.988, IN-W209.244, IN-W209.994,	
IN-W210.1001, INW210.247, IN-W211.1009, IN-W211.249,	
IN-W212.1058, IN-W212.251, IN-W213.1069, IN-W213.252,	
IN-W213.253, IN-W214.1075, IN-W214.755, IN-W214.756,	
IN-W225.127, IN-W225.800, IN-W230.229, IN-W230.940,	
IN-W250.259, IN-W250.941, IN-252.1000, IN-W252.282,	
IN-W252.283IN-W252.811, IN-W254.1044, IN-W254.1045,	
IN-W254.289, IN-W254.290, IN-W256.1062, IN-W256.295, IN-W259.552, IN-W259.920, IN-W260.565, IN-W260.566,	
IN-W260.567, IN-W260.568, IN-W260.916, IN-W265.516,	
IN-W265.517, IN-W269.510, IN-W269.535, IN-W271.532,	
IN-W271.533, IN-W272.504, IN-W272.974, IN-W275.502,	
IN-W275.967, IN-W276.500, IN-W276.966, IN-W278.1090,	
IN-W278.495, IN-W280.1066, IN-W280.448, IN-W280.449,	
IN-W281.487, IN-W281.488, IN-W283.481, IN-W283.534,	
IN-W283.963, IN-W283.964, IN-W285.471, IN-W285.815,	
IN-W287.460, IN-W289.466, IN-W291.454, IN-W291.455,	
IN-W291.456, IN-W294.1057, IN-W294.342, IN-W294.343,	
IN-W294.814, IN-W296.327, IN-W296.329, IN-W296.330,	
IN-W296.331, IN-W296.813, IN-W298.317, IN-W298.318,	
IN-W298.812, IN-W298.979, IN-W300.308, IN-W300.930,	
IN-W302.299, IN-W302.913, IN-W304.860, IN-W304.861,	
IN-W305.1068, IN-W305.828, IN-W306.632, IN-W306.633, IN-W306.634, IN-W306.635, IN-W308.618, IN-W308.621,	
IN-W311.1013, IN-W311.604, IN-W312.602, IN-W312.942,	
IN-W314.1017, IN-W314.606, IN-W317.1028, IN-W317.1029,	
IN-W317.757, IN-W317.758, IN-W327.1085, IN-W327.735,	
IN-W329.681, IN-W329.682, IN-W330.667, IN-W330.678,	
IN-W334.675, IN-W334.961, IN-W336.660, IN-W336.820,	
IN-W338.657, IN-W338.956, IN-W339.655, IN-W339.955,	
IN-W345.669, IN-W345.819, IN-W351.648, IN-W351.922,	
IN-W354.1016, IN-W354.858, IN-W355.1015, IN-W355.857,	
IN-W356.1014, IN-W356.856, IN-W367.840, IN-W367.973,	
IN-W368.839, IN-W368.971, IN-W369.837, IN-W369.970,	
IN-W370.836, IN-W370.929, IN-W371.1018, IN-W371.831,	
IN-W373.1003, IN-W373.830, IN-W374.1091, IN-W374.829,	
IN-W157.906, IN-W157.907, IN-W157.144	IN-W157.144
IN-W159.119, IN-W159.120, IN-W159.1072	IN-W159.1072
IN-W163.234, IN-W163.1007	IN-W163.1007
IN-W164.1060, IN-W164.153	IN-W164.153
IN-W167.926, IN-W167.149	IN-W167.149
IN-W174.1082, IN-W174.154	IN-W174.154
IN-W177.1083, IN-W177.156	IN-W177.156
IN-W179.1084, IN-W179.158	IN-W179.158
IN-W188.1093, IN-W188.160	IN-W188.160

# Table DATA-F-C-6. Idaho National Engineering and Environmental Laboratory Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
IN-W216.875, IN-W216.876, IN-W216.98,	IN-W216.98
IN-W216.877, IN-W216.99, IN-W306.817, INW308-816	
IN-W218.109, IN-W218.909	IN-W218.909
IN-W220.925, IN-W220.114	IN-W220.114
IN-W221.113, IN-W221.927	IN-W221.927
IN-W222.117, IN-W222.965, IN-W222.116	IN-W222.116
IN-W228.102, IN-W228.103, IN-W228.883, IN-W228.884, IN-W228.885, IN-W306.817, INW308.816, IN-W228.101	IN-W228.101
IN-W240.272, IN-W240.931	IN-W240.931
IN-W243.274, IN-W243.275, IN-W243.276, IN-W243.277, IN-W243.808	IN-W243.808
IN-W245.1034, IN-W245.1035, IN-W245.302, IN-W245.301	IN-W245.301
IN-W-247.1038, IN-W247.523, IN-W247.524, IN-W247.810	IN-W247.810
IN-W249.1071, IN-W249.528, IN-W249.527	IN-W249.527
IN-W257.558, IN-W257.947	IN-INTEC-SFS-01
IN-W259.921, IN-W349.667, IN-W349.924	IN-AE-AGHC-01
IN-W267.514, IN-W267.1005	IN-W267.1005
IN-W309.610, IN-W308.816, IN-W306.817, IN-W309.609	IN-W309.609
IN-W319.583, IN-W319.584	IN-W319.584
IN-W321.578, IN-W321.1023	IN-W321.1023
IN-W332.962, IN-W332.661	IN-W332.661
IN-W347.646, IN-W347.818	IN-W347.818
IN-W348.846, IN-W348.1012	IN-W348.1012
IN-W357.850, IN-W357.1022	IN-W357.1022
IN-W361.849, IN-W361.1021	IN-W361.1021
IN-W362.848, IN-W362.1020	IN-W362.1020
IN-W363.847, IN-W363.1019	IN-W363.1019
IN-W364.844, IN-W364.845, IN-W364.1011	IN-W364.1011
IN-W365.842, IN-W365.843, IN-W365.1010	IN-W365.1010
IN-W366.1004, IN-W366.841	IN-W366.841
IN-W375.827, IN-W375.1096	IN-W375.1096
IN-W263.520	IN-W263.520
IN-W353.859	IN-W353.859
IN-W315.601	IN-W315.601
IN-W181.162	IN-W181.162
IN-W219.110	IN-W219.110
IN-W219.914	IN-W219.914
IN-W322.851	IN-W322.851
IN-W323.562	IN-W323.562

### Table DATA-F-C-6. Idaho National Engineering and Environmental Laboratory Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
IN-W323.951	IN-W323.951
IN-W337.673	IN-W337.673
IN-W337.957	IN-W337.957
IN-W341.671	IN-W341.671
IN-W341.954	IN-W341.954
IN-W342.652	IN-W342.652
IN-W342.953	IN-W342.953
IN-W358.854	IN-W358.854
IN-W358.855	IN-W358.855
IN-W358.948	IN-W358.948
IN-W358.949	IN-W358.949
IN-W372.832	IN-W372.832
IN-W372.918	IN-W372.918
N/A	IN-NRF-153
N/A	IN-TRA-150
N/A	IN-TRA-157
N/A	IN-AW-161
IN-Z001	IN-GEM-01
IN-Z001	IN-GEM-02
IN-W325.1076	IN-W325.1076
IN-W325.679	IN-W325.679
IN-W350.650	IN-W350.650
IN-W350.923	IN-W350.923
IN-W359.853	IN-W359.853
IN-W360.852	IN-W360.852
IN-W360.912	IN-W360.912
IN-W146.699	IN-W146.699
N/A	IN-SBW-01A
N/A	IN-SBW-01B
N/A	IN-TRA-BE-01
IN-Z001	IN-Z001
N/A	IN-Z001A

### 1 DATA-F-C-1.9 Lawrence Berkeley National Laboratory

- 2 No changes were made to Lawrence Berkeley National Laboratory (LBNL) waste streams.
- 3 Table DATA-F-C-7 contains the crosswalk of waste streams from TWBIR Revision 2 to the
- 4 2003 Update Report for the LBNL.

# Table DATA-F-C-7. Lawrence Berkeley National Laboratory Crosswalk of Waste Streams

### **TWBIR Revision 2 to the 2003 Update Report**

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
LB-T001	LB-T001

#### 4 DATA-F-C-1.10 Lawrence Livermore National Laboratory

- 5 The inventory of stored waste at Lawrence Livermore National Laboratory (LLNL) increased
- 6 because of ongoing TRU waste generation. LLNL scaled up the originally reported numbers for
- 7 most of the waste streams to match the current inventory.
- 8 A new high-efficiency particulate air (HEPA) filter mixed waste stream was established, LL-
- 9 W034, to accommodate several old boxes and one drum.
- 10 Table DATA-F-C-8 contains the crosswalk of waste streams from TWBIR Revision 2 to the
- 11 2003 Update Report for the LLNL.

### 12 DATA-F-C-1.11 Los Alamos National Laboratory

- 13 The major differences in the submittals for the TWBIR Revision 2 and the 2003 Update are due
- 14 to three factors:

16

18

20

1 2

3

- Redefinition of waste streams,
  - Addition of waste generated between 1996 and 2003, and
- Addition of radiography characterization data for ~5,000 drums.

### Table DATA-F-C-8. Lawrence Livermore National Laboratory Crosswalk of Waste

19 Streams

### TWBIR Revision 2 vs 2003 Update Report

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
LL-M001	LL-M001
LL-T001	LL-T001
LL-T002	LL-T002
LL-T003	LL-T003
LL-T004	LL-T004
LL-T005	LL-T005: LL-W034
LL-W018	LL-W018
LL-W019	LL-W019

#### DATA-F-C-1.11.1 Redefinition of Waste Streams

- 2 Following the guidance in the draft WIPP Waste Analysis Plan (WAP) (NMED 1999), LANL
- 3 reorganized waste streams beginning in 1998 with publication of the "LANL Waste
- 4 Characterization Sampling Plan, R.O." Waste streams in the 1996 TWBIR were defined based
- 5 on major waste material parameter content (e.g., metals, combustible debris, etc.). These were
- 6 further subdivided beginning in 1998 according to the waste generation facility. Waste stream
- 7 assignments, especially involving the mixed or non-mixed status of wastes, were further refined
- 8 using additional acceptable knowledge studies in subsequent versions of the "Acceptable
- 9 Knowledge Information Summary." There is no simple rule for correspondence in waste stream
- 10 assignment between the two submittals; improved AK resulted in numerous waste stream
- 11 reassignments.

1

### 12 DATA-F-C-1.11.2 Addition of Waste

- Los Alamos National Laboratory (LANL) continues to generate waste approximately 1,600
- 14 containers were generated between 1996 and the latest 2003 Update submittal. These have been
- added to the LANL inventory in the latest data submittal.

#### 16 DATA-F-C-1.11.3 Radiography Characterization Data

- 17 LANL has obtained real-time radiography (RTR) data for about 5,000 waste drums from almost
- all of the defined waste streams. This actual data has been used to complete the information on
- 19 average, minimum, and maximum waste material parameter content for each waste stream.
- 20 Isotopic information for each waste stream is still based primarily on AK (generator assays).

## Table DATA-F-C-9 contains the crosswalk of waste streams from TWBIR Revision 2 to the 2003 Update Report for the LANL.

Table DATA-F-C-9. Los Alamos National Laboratory Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
LA-M002	LA-TA-00-05, LA-TA-03-28, LA-TA-21-13, LA-TA-21-43, LA-TA-50-17, LA-TA-50-18
LA-T001	LA-TA-00-01, LA-TA-21-42, LA-TA-50-15, LA-TA-55-19, LA-TA-55-30, LA-TA-55-44
LA-T002	LA-TA-50-17
N/A	LA-0S-00-01
LA-T004	LA-IT-00-01, LA-PX-00-01, LA-TA-00-02, LA-TA-00-05, LA-TA-00-06, LA-TA-03-12, LA-TA-03-13, LA-TA-03-19, LA-TA-03-20, LA-TA-03-24, LA-TA-03-26, LA-TA-03-30, LA-TA-21-06, LA-TA-21-12, LA-TA-21-15, LA-TA-21-42, LA-TA-48-01, LA-TA-50-11, LA-TA-50-15, LA-TA-50-40, LA-TA-55-19, LA-TA-55-20, LA-TA-55-21, LA-TA-55-30, LA-TA-55-33, LA-TA-55-38, LA-TA-55-43, LA-TA-55-44, LA-TA-55-49

Table DATA-F-C-9. Los Alamos National Laboratory Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
LA-T005	IT-00-01, SL-00-01, LA-TA-00-01, LA-TA-00-02, LA-TA-00-04, LA-TA-00-05, LA-TA-00-06, LA-TA-00-07, LA-TA-03-12, LA-TA-03-19, LA-TA-03-24, LA-TA-03-42, LA-TA-21-12, LA-TA-48-01, LA-TA-50-11, LA-TA-50-15, LA-TA-55-18, LA-TA-55-19, LA-TA-55-20, LA-TA-55-21, LA-TA-55-22, LA-TA-55-23, LA-TA-55-24, LA-TA-55-25, LA-TA-55-26, LA-TA-55-28, LA-TA-55-30, LA-TA-55-32, LA-TA-55-33, LA-TA-55-34, LA-TA-55-38, LA-TA-55-39, LA-TA-55-42, LA-TA-55-43, LA-TA-55-44, LA-TA-55-60
LA-T006	LA-TA-00-02, LA-TA-00-05, LA-TA-21-15, LA-TA-48- 01, LA-TA-50-15, LA-TA-55-30, LA-TA-55-32, LA-TA- 55-33, LA-TA-55-38, LA-TA-55-49
LA-T007	LA-TA-03-24, LA-TA-03-26
LA-T008	TA-00-01, LA-TA-21-14, LA-TA-21-44, LA-TA-50-20
LA-T009	LA-IT-00-01, LA-OS-00-02, LA-TA-00-01, LA-TA-00-04, LA-TA-00-07, LA-TA-03-12, LA-TA-03-19, LA-TA-03-20, LA-TA-03-24, LA-TA-03-26, LA-TA-03-40, LA-TA-03-42, LA-TA-21-41, LA-TA-21-42, LA-TA-21-44, LA-TA-50-10, LA-TA-50-15, LA-TA-50-17, LA-TA-50-19, LA-TA-50-41, LA-TA-55-19, LA-TA-55-30, LA-TA-55-33, LA-TA-55-34, LA-TA-55-38, LA-TA-55-44, LA-TA-55-48, LA-TA-55-60, LA-TA-55-62, LA-TA-55-63
LA-TR04	LA-TA-03-27
LA-TR05	N/A
LATR07	LA-TA-00-02, LA-TA-03-27
LA-W001 is LA-M001 (This is LANL Local ID.)	LA-TA-00-02, LA-TA-00-04, LA-TA-00-05, LA-TA-03-12, LA-TA-03-19, LA-TA-03-24, LA-TA-03-40, LA-TA-21-12, LA-TA-21-40, LA-TA-21-42, LA-TA-49-01, LA-TA-50-11, LA-TA-50-15, LA-TA-50-40, LA-TA-55-19, LA-TA-55-30, LA-TA-55-44
LA-W003 is LA-M003 (This is LANL Local ID.)	LA-TA-00-05, LA-TA-50-19
LA-W004 is LA-M004 (This is LANL Local ID.)	LA-TA-00-05, LA-TA-00-06, LA-TA-00-07, LA-TA-03-12, LA-TA-03-13, LA-TA-03-20, LA-TA-21-06, LA-TA-55-19, LA-TA-55-20, LA-TA-55-30, LA-TA-55-44, LA-TA-55-56
LA-W005 is LA-M005 (This is LANL Local ID.)	LA-TA-00-02, LA-TA-00-04, LA-TA-00-06, LA-TA-03-13, LA-TA-03-19, LA-TA-03-24, LA-TA-55-19, LA-TA-55-20, LA-TA-55-21, LA-TA-55-22, LA-TA-55-23, LA-TA-55-28, LA-TA-55-30, LA-TA-55-32, LA-TA-55-34, LA-TA-55-38, LA-TA-55-39, LA-TA-55-43, LA-TA-55-44, LA-TA-55-53, LA-TA-55-56, LA-TA-55-60, LA-TA-55-61
LA-W006 is LA-M006	LA-TA-00-05, LA-TA-03-30, LA-TA-21-16, LA-TA-50- 19, LA-TA-55-30, LA-TA-55-32, LA-TA-55-38, LA-TA-

## Table DATA-F-C-9. Los Alamos National Laboratory Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
	55-41, LA-TA-55-44, LA-TA-55-49, LA-TA-55-53, LA-
	TA-03-31
LA-W009 is LA-M009 (This is LANL Local ID.)	
LA-W066 is LA-M001 (This is LANL Local ID.)	LA-TA-00-02, LA-TA-00-04, LA-TA-00-05, LA-TA-03-
	12, LA-TA-03-19, LA-TA-03-24, LA-TA-03-40, LA-TA-
	21-12, LA-TA-21-42, LA-TA-49-01, LA-TA-50-11, LA-
	TA-50-15, LA-TA-50-40, LA-TA-55-19, LA-TA-55-30,
	LA-TA-55-44
LA-W067 is LA-T004 (This is LANL Local ID.)	See LANL LA-T004
LA-W068 is LA-T005 (This is LANL Local ID.)	See LANL LA-T005
LA-WR01 is LA-MR01 (This is LANL Local ID.)	LA-TA-00-01, LA-TA-03-27
LA-WR05 is LA-MR05 (This is LANL Local ID.)	LA-TA-03-27

#### 1 DATA-F-C-1.12 Nevada Test Site

- 2 The Nevada Test Site (NTS) has one new waste stream identified in the 2003 Update from the
- 3 National Nuclear Security Administration. That new waste stream results from activities from
- 4 the Joint Actinide Shock Physics Experimental Research (JASPER) Facility.
- 5 Table DATA-F-C-10 contains the crosswalk of waste streams from TWBIR Revision 2 to the
- 6 2003 Update Report for the NTS.

## 7 Table DATA-F-C-10. Nevada Test Site Laboratory Crosswalk of Waste Streams 8 TWBIR Revision 2 vs 2003 Update Report

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
NT-W001	NT-W001
NT-W021	NT-W021
N/A	NT-JAS-01

#### 9 DATA-F-C-1.13 Oak Ridge National Laboratory

#### 10 DATA-F-C-1.13.1 Waste Streams

- 11 The number of waste streams was reduced from 16 to 9. The reason for the change is to better
- represent the waste streams that WIPP will receive. The previously identified waste streams
- were reflective of the stored inventory. The new waste stream information reflects the
- 14 repackaged waste after sorting, treatment, recharacterization, and repackaging.
- 15 Corresponding to the WIPP-ID changes, the matrix codes have been updated to reflect the waste
- 16 stream parameters.

#### 1 DATA-F-C-1.13.2 TRUCON Codes

- 2 There were no significant changes in the TRUCON codes. Oak Ridge will need to work with
- WIPP to obtain TRUCON codes for the various waste streams as Oak Ridge approaches 3
- 4 certification. The currently approved Oak Ridge TRUCON codes (OR-125 and OR-225) are still
- 5 needed.

#### 6 DATA-F-C-1.13.3 EPA Codes

- 7 The EPA codes were eliminated for the waste because of treatment. The previous waste stream
- 8 description included EPA codes for characteristic heavy metals including D006, D008, D009,
- 9 and D011. The current DOE-ORO contract for processing the TRU waste includes treatment to
- 10 meet the Resource Conservation and Recovery Act (RCRA) Land Disposal Restrictions.
- 11 Therefore, the TRU waste will not be characteristic at the time it is sent to WIPP.

#### 12 DATA-F-C-1.13.4 Radionuclides

- 13 The radioactive isotope inventory for Oak Ridge has changed considerably. The radioisotope
- inventories have increased from approximately 125,000 curies in Revision 2 to 245,000 curies in 14
- the 2003 Update. The Revision 2 data indicated that the predominant isotopes by activity were 15
- <sup>60</sup>Co and <sup>110m</sup>Ag with over a factor of ten reduction to reach the next dominant isotopes (<sup>241</sup>Pu, 16
- <sup>241</sup>Am, <sup>90</sup>Sr, <sup>137</sup>Cs, etc.). The 2003 Update data indicate the predominant isotopes are <sup>241</sup>Pu, 17
- <sup>90</sup>Sr, and <sup>137</sup>Cs with over a factor of ten reduction to reach the next dominant isotopes (<sup>238</sup>Pu, 18
- <sup>152</sup>Eu. <sup>244</sup>Cm, etc.). The changes in the radioisotope inventory are attributable to three sources: 19
- 20 • Additional characterization information,
- 21 • Differences in waste processing strategies, and
- 22 Additional waste streams.
- 23 Oak Ridge has obtained more reliable data for characterization than existed five years ago. A
- 24 considerable number of samples have been obtained and analyzed from the TRU sludge. The
- 25 new analysis is reflected in the characterization information submitted. Further characterization
- 26 has also been performed for the CH-TRU and RH-TRU waste debris from the major production
- facilities in Oak Ridge. The debris characterization effort identified more actinides and other 27
- 28 isotopes than were previously included.
- 29 The Oak Ridge waste processing includes compaction of the waste and size reduction of the
- 30 waste equipment. Since the TWBIR activities are reported as concentrations (i.e., Ci/m<sup>3</sup>),
- 31 compaction and size reduction would increase the concentration. However, a net reduction of
- 32 radioisotopes will be going to WIPP as a result of waste sorting and segregation. Sorting will
- 33 generate low-level radioactive waste (LLW) that will be sent to the NTS. Offsetting the isotope
- 34 reduction by the generation of LLW is a small increase in the volume of unsorted waste. All
- 35 told, these changes result in only moderate change to the overall totals.

- Oak Ridge has identified a few additional waste streams that have added a significant amount of
- 2 radioisotopes. These streams include TRU soils, fuel salts, and decontamination and
- 3 decommissioning (D&D) debris.

### 4 DATA-F-C-1.13.5 Packaging

- 5 The packaging when realigned to the new waste streams designators has not changed. Oak
- 6 Ridge plans to send CH-TRU waste in 55-gallon drums and RH-TRU waste in 72B canisters.

#### 7 DATA-F-C-1.13.6 Volumes

- 8 The volume of waste being sent from Oak Ridge to WIPP has reduced from approximately 3,800
- $9 m^3 (134,216 { ft}^3)$  in Revision 2 to 1,100 m<sup>3</sup> (38,852 ft<sup>3</sup>) in the 2003 Update. The reason is mostly
- 10 attributable to the planned volume reduction techniques during waste processing including waste
- segregation (LLW from TRU), compaction, size reduction, and evaporative drying for sludge.
- Oak Ridge's submittal for the 2003 Update is focused on the projected volumes, not the current
- volumes. The reason for the emphasis on projected volumes is that the Oak Ridge waste streams
- will be completely repackaged and will include considerable volume reduction to most of the
- waste streams. The repackaged waste is what WIPP will be sent. The effort to prepare the 2003
- 16 Update information included a detailed evaluation of the projected volumes.
- 17 Essentially, this submittal is the same as Revision 2 for the debris and homogeneous solids
- 18 (sludge). The addition of Environmental Restoration waste streams (i.e., soil, salts, PCB-
- 19 containing TRU, etc.) has resulted in new material parameter mixes for those waste streams and
- some influence in global totals for larger waste streams.
- 21 There is a significant change between waste densities in Revision 2 and the 2003 Update due to
- 22 the compaction and size reduction efforts previously discussed. Also, new waste streams (e.g.,
- 23 soil) have been added and their specific densities included in the 2003 Update.
- 24 Table DATA-F-C-11 contains the crosswalk of waste streams from TWBIR Revision 2 to the
- 25 2003 Update Report for the ORNL.

## Table DATA-F-C-11. Oak Ridge National Laboratory Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
OR-W041, OR-W053	OR-W201
OR-W044, OR-W045, OR-W047, OR-W048	OR-W202
N/A	OR-W203
N/A	OR-W204
OR-W054	OR-W211
OR-W040, OR-W043	OR-W212
N/A	OR-W213
N/A	OR-W214
OR-W042, OR-W046	OR-W215
OR-W051	N/A

OR-W049	N/A
OR-W050	N/A
OR-Z001	N/A

#### 1 DATA-F-C-1.14 Paducah Gaseous Diffusion Plant

- 2 There were no changes to the Paducah waste streams with this Update. Table DATA-F-C-12
- contains the crosswalk of waste streams from TWBIR Revision 2 to the 2003 Update Report for 3
- 4 the Paducah Gaseous Diffusion Plant (PGDP).

#### 5 Table DATA-F-C-12. Paducah Gaseous Diffusion Plant Laboratory Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report 6

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
PA-A015	PA-A015
PA-B015	PA-B015
PA-W014	PA-W014

#### 7 DATA-F-C-1.15 Rocky Flats Environmental Technology Site

- 8 The major changes in the Rocky Flats Environmental Technology Site (RFETS) waste streams
- 9 are that all the residues have been recharacterized as waste and have been processed and
- packaged as TRU/TRUM waste; therefore, many waste streams were renamed from Mixed 10
- Residues (MR) waste to Mixed TRU (MT) waste. Also, several new waste streams have been 11
- 12 added.
- The waste material parameters (WMPs) and the radionuclide concentration (Ci/m³) data are 13
- 14 based on data from WIPP-approved counters or systems.
- Table DATA-F-C-13 contains the crosswalk of waste streams from TWBIR Revision 2 to the 15
- 16 2003 Update Report for the RFETS.

Table DATA F-C-13. Rocky Flats Environmental Technology Site Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
RF- MR-0070	N/A
RF-MR0089	RF-MT0089
RF-MR0090	RF-MT0090, RF-MT0093
RF-MR0091	RF-MT0091, RF-MT0093
RF-MR0092	RF-MT0092, RF-MT0093
RF-MR0097	RF-MT0097, RF-MT0093
RF-MR-0099	RF-MT0099
RF-MR-0200	RF-MT0200
RF-MR0290	RF-MT0290

RF-MR0292	RF-MT0292
RF-MR0299	RF-MT0299
RF-MR0320	RF-MT0320
RF-MR0321	RF-MT0321
RF-MR0330	RF-MT0330

Table DATA F-C-13 Rocky Flats Environmental Technology Site Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
RF-MR-0331	RF-MT-0331
RF-MR0332	RF-MT0332
RF-MR-0333	N/A
RF-MR0336	RF-MT0336
RF-MR0337	RF-MT0337
RF-MR-0338	RF-TT0338
RF-MR0339	RF-MT0339
RF-MR0340	RF-TT0340
RF-MR-0342	RF-MT-0342
RF-MR-0365, RF-MR-0409, RF-MR-0411, RF-MR-0413, RF-MR-0414, RF-MR-0434, RF-MT 0411, RF-TR 0404, RF-TR 0405, RF-TR 0406, RF-TR 0407, RF-TR 0408, RF-TR 0410, RF-TR 0411, RF-TR 0413, RF-TR 0415, RF-TR 0417, RF-TR 0418, RF-TR 0427, RF-TR 0429, RF-TR 0433, RF-TR 0434, RF-TR 0434, RF-TR 0473, RF-TR 0654,	RF-TT411R, RF-TT429R, RF-TT433X, RF-TT436R, RF-TT454X
RF-MR0371	RF-MT0371
RF-MR0373	RF-MT0373
RF-MR0374	RF-MT0374
RF-MR-0376	RF-MT0376
RF-MR0377	RF-MT0377
RF-MR0378	RF-MT0378
RF-MR-0387, RF-MR-0390, RF-MR-0392, RF-MR-0391, RF-MR-0395, RF-TR0390, RF-TR0395, RF-TR0396, RF-TR0398	RF-TT398R
RF-MR-0393	RF-TT0393
RF-MR-0401	N/A
RF-MR0419	RF-MT0419
RF-MR0420	RF-MT0420
RF-MR 0421, RF-MR 0422, RF-MR0428	RF-MT420P
RF-MR 0423	RF-MT0423
RF-MR-0500	N/A
RF-MR-0503	RF-MT-0503, MT-0505
RF-MR-0508, RF-MR-0527	RF-MT0828, RF-MT0829, RF-MT0505
RF-MR0533, RF-MR0535	RF-MT0816, RF-MT0827, RF-MT0533
RF-MR-0541	RF-MT0541

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Table DATA F-C-13 Rocky Flats Environmental Technology Site Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
RF-MR -X200	RF-TT0523, RF-MT 532C
RF-MT0001	RF-MT0001, RF-MT0002, RF-MT0532E,
	RF-MT0532F, RF-MT0828, RF-MT0829
RF-MT0003	RF-MT0003, RF-MT0529, RF-MT0531, RF-MT0816,
	RF-MT0827, RF-MT0857
RF-MT0007	RF-MT0007
RF-MT-0292	RF-MT-0292
RF-MT-0299	RF-MT-0299
RF-MT0320	RF-MT0320, RF-MT3010, RF-MT3011
RF-MT0321	RF-MT0321, RF-MT3010, RF-MT3011
RF-MT-0328	RF-MT-0328
RF-MT0330	RF-MT0330, RF-MT3010, RF-MT3011
RF-MT-0331	RF-MT-0331
RF-MT-0335	RF-MT-0335
RF-MT0336	RF-MT0336, RF-MT3010, RF-MT3011
RF-MT0337	RF-MT0337, RF-MT3010, RF-MT3011
RF-MT-0338	N/A
RF-MT0341	RF-MT0339
RF-MT-0342	RF-MT-0342
RF-MT-0372	RF-MT-0372
RF-MT0374	RF-MT0374, RF-MT3010, RF-MT3011
RF-MT0375	RF-MT0375A, RF-MT0375B
RF-MT0377	RF-MT0377
RF-MT0378	RF-MT0378
RF-MT-0368	RF-MT-0368
RF-MT-0391, RF-MT-0392	RF-TT398R
RF-MT-0393	RF-TT0393
RF-MT-0400	N/A
RF-MT -0409	RF-TT0409
RF-MT -0412	RF-TT0412
RF-MT-0414	RF-MT-0414
RF-MT0420	RF-MT0420
RF-MT0425	RF-MT0425
RF-MT-0438	RF-MT-0438
RF-MT0440	RF-MT0440, RF-MT0443
RF-MT0442	RF-MT0442
RF-MT0444	RF-MT0444
RF-MT0480	RF-MT0480, RF-MT3010, RF-MT3011
RF-MT-0491	RF-MT-0491
RF-MT-0492	RF-MT-0492
RF-MT-0541	RF-MT-0541
RF-MT-0492	RF-TT0492

Table DATA F-C-13 Rocky Flats Environmental Technology Site Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
RF-MT0544	RF-MT0545
RF-MT0800	RF-MT0800
RF-MT0801	RF-MT0801
RF-MT0803	RF-MT0803
RF-MT0806	RF-MT0806
RF-MT0807	RF-MT0807
RF-MT0821	RF-TT0821, RF-MT3010, RF-MT3011
RF-MT0822	RF-TT0822, RF-MT3010, RF-MT3011
RF-MT-0823	RF-MT-0823
RF-MT0831	RF-MT0831, RF-MT3010, RF-MT3011
RF-MT0831P	N/A
RF-MT0832	RF-MT0832, RF-MT3010, RF-MT3011
RF-MT0833	RF-MT0833, RF-MT3010, RF-MT3011
RF-MT0853	RF-MT0853
RF-MT0855	RF-MT0855
RF-MT0856	RF-MT0443, RF-MT3010, RF-MT3011
RF-MTX111	N/A
RF-MTX112	RF-MT0299
RF-MTX115	RF-MT0816, RF-MT0827
RF-T010	RF-MT0800, RF-MT0803, RF-MT0807
RF-TR0044, RF-TR0067, RF-TR0081, RF-TR0087,RF-TR0146, RF-TR0289	RF-MT532C
RF-TR0080	RF-MT532A, RF-MT532B, RF-MT532C, RF-MT532D
RF-TR0082	RF-MT532D RF-MT532A, RF-MT532B, RF-MT532C, RF-MT532D
RF-TR0083	RF-MT532A, RF-MT532B, RF-MT532C, RF-MT532D
RF-TR0084	RF-MT532A, RF-MT532B, RF-MT532C, RF-MT532D
RF-TR0086	RF-MT532A, RF-MT532B, RF-MT532C, RF-MT532D
RF-TR0089	RF-MT0089, RF-MT0H61, RF-MT532A, RF-MT532B, RF-MT532C, RF-MT532D,
RF-TR0145	N/A
RF-TR0290	RF-MT0H61
RF-TR0299	RF-TT0299
RF-TR0300	RF-TT0300
RF-TR0301	RF-TT0301
RF-TR0303	RF-TT0302
RF-TR0310	RF-TT0310
RF-TR0312	RF-TT0312
RF-TR0320	RF-TT0320

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Table DATA F-C-13 Rocky Flats Environmental Technology Site Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
RF-TR0330	RF-TR0330
RF-TR0331	RF-TT-0331
RF-TR0334	RF-TT-0334
RF-TR0335	RF-TT0335
RF-TR0336	RF-TT0336
RF-TR0337	RF-TT0337
RF-TR 0338	RF-TT0338
RF-TR0342	RF-TT0342
RF-TR0368	RF-TT0368
RF-TR0370	RF-TT0370
RF-TR0376	RF-TT0371
RF-TR0391	RF-TT0391
RF-TR0392	RF-TT0392
RF-TR0394	RF-TT0394
RF-TR 0409	RF-TT0409
RF-TR 0412	RF-TT0412
RF-TR0414	RF-TT0414
RF-TR 0416	RF-TT0480
RF-TR 0430	RF-TT0430
RF-TR 0431	RF-TT0431
RF-TR 0438	RF-TT0438
RF-TR 0440	RF-TT0440
RF-TR 0441	RF-TT0441
RF-TR 0442	RF-TT0442
RF-TR 0444	RF-MT0444
RF-TR 0479	RF-TT0479
RF-TR 0480	RF-TT0480
RF-TR 0484	RF-TT0484
RF-TR 0485	RF-TT0485
RF-TR 0486	RF-TT0486
RF-TR 0489	RF-TT0489
RF-TR 0504	N/A
RF-TR 0527	RF-MT0828, RF-MT0829
RF-TR 0541	RF-TT0541
RF-TR 0600	N/A
RF-TR 0601	RF-TT0601
RF-TR 0653	RF-MT532D
RF-TR 0655	RF-TT0655
RF-TT0300	RF-TT0300
RF-TT0301	RF-TT0301
RF-TT0302	RF-TT0302, RF-MT0302

Table DATA F-C-13 Rocky Flats Environmental Technology Site Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
RF-TT0303	RF-TT0303
RF-TT0312	RF-TT0312
RF-TT0320	RF-TT0320
RF-TT0330	RF-TT0330
RF-TT0335	RF-TT0335
RF-TT0336	RF-TT0336
RF-TT0337	RF-TT0337
RF-TT0338	RF-TT0338
RF-TT0374	RF-TT0374
RF-TT0376	RF-TT0376
RF-TT0430	RF-TT0430
RF-TT0431	RF-TT0431
RF-TT0438	RF-TT0438
RF-TT0440	RF-TT0440
RF-TT0441	RF-TT0441
RF-TT0442	RF-TT0442
RF-TT0479	RF-TT0479
RF-TT0480	RF-TT0480
RF-TT0481	RF-TT0481
RF-TT0484	RF-TT0484
RF-TT0485	RF-TT0485
RF-TT0486	RF-TT0486
RF-TT0487	RF-TT0487
RF-TT0489	RF-TT0489
RF-TT0490	RF-TT0490, RF-MT0490
RF-TT0491	RF-TT0491
RF-TT0508	RF-MT0828, RF-MT0829
RF-TT0541	RF-TT0541
RF-TT0802	RF-TT0802
RF-TT0806	RF-TT0806
RF-TT0809	RF-TT0809
RF-TT0821	RF-TT0821
RF-TT0822	RF-TT0822
RF-TT0823	RF-TT0823
RF-TT0824	RF-TT0824
RF-TT0825	RF-TT0825
RF-TT0831	RF-TT0831
RF-TT0832	RF-TT0832
RF-TT0833	RF-MT0831
RF-TT0999	N/A
RF-TT2116	RF-MT2116

### Table DATA F-C-13 Rocky Flats Environmental Technology Site Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
RF-W011	RF-MT0480, RF-MT0488
N/A	RF-MT0523A
N/A	RF-MT0523B
N/A	RF-MT0523C
N/A	RF-MT0523D
N/A	RF-MT0523E
N/A	RF-TT0523A
N/A	RF-TT0523B
N/A	RF-TT0523C
N/A	RF-TT0523D
N/A	RF-TT0523E

#### 1 **DATA-F-C-1.16 Sandia National Laboratories**

#### 2 DATA-F-C-1.16.1 **Inventory Changes**

- 3 The 1996 TRU Waste Baseline Inventory Report (TWBIR) for Sandia National Laboratories,
- 4 New Mexico (SNL/NM) included two waste streams: SA-W134 – Transuranic Waste at Hot Cell
- 5 Facility and SA-T001 – Lovelace ITRI Waste Stream. The recent submittal for the TWBIR
- 6 renamed one waste stream, SA-W134 - TRU Waste from SNL/NM - Contact Handled and
- 7 created one new waste stream, SA-W135 – TRU Waste from SNL/NM – Remote Handled. The
- 8 total waste covered by these two waste streams shows an increase in volume from the 1996
- 9 report. This increase is due to the TRU waste volume generated during the decontamination and
- 10 decommissioning of the Hot Cell Facility at SNL/NM Technical Area V being greater than
- originally anticipated, additional TRU waste identified during recharacterization efforts of 11
- 12 legacy waste stored by SNL/NM, and an effort to identify nuclear material that has no defined
- 13 use at the laboratory.
- 14 The updated volume for SA-T001 – Lovelace ITRI Waste Stream has been reduced from the
- 15 1996 report. This is due to a mission change at the Lovelace Respiratory Research Institute
- 16 (LRRI). It is no longer a DOE-funded facility and its work with radioactive material, especially
- 17 transuranic isotopes, has been greatly reduced. Any additional TRU waste generated by the
- 18 facility will be the result of D&D efforts.
- 19 Table DATA-F-C-14 contains the crosswalk of waste streams from TWBIR Revision 2 to the
- 20 2003 Update Report for the SNL.

#### 21 Table DATA-F-C-14. Sandia National Laboratories Crosswalk of Waste Streams 22 TWBIR Revision 2 to 2003 Update Report

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
SA-T001	SA-T001

SA-W134	SA-W134, SA-W134M, SA-W135
SA-Z001	SA-Z001

#### DATA-F-C-1.17 Savannah River Site

- 2 The 1996 inventory consisted of 47 specific waste streams; 18 waste streams were TRU and 29
- 3 waste streams were MT. The reported stored inventory was 9,194 m<sup>3</sup> (324,732 ft<sup>3</sup>). In the 1996
- 4 submittal, the technology identified for treating part of the inventory was vitrification that had a
- 5 volume reduction ratio of 30 to 1. Also included was size reduction for large metal components
- 6 that had to fit into standard waste boxes (SWBs). The size reduction ratio used was 3.5 to 1. As
- a result, the final waste forms identified were vitrified debris, heterogeneous debris, and metal
- 8 debris.

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- 9 The SRS has consolidated the 47 waste streams into 20 waste streams. This is because
- 10 vitrification will no longer be implemented for treatment and the large metal components will
- only be size-reduced to fit into 5 ft by 5 ft by 8 ft containers. As a result, the vitrified and metal
- waste streams have been deleted and are now included in the heterogeneous debris waste
- streams. The reported stored inventory equals 11,612 m<sup>3</sup> (410,135.8 ft<sup>3</sup>).
- 14 The SRS also identifies five future waste streams to be generated as a result of Pit Disassembly
- and Waste Solidification activities. It also identifies the future generation of 270 m<sup>3</sup> (9,536.4 ft<sup>3</sup>)
- of waste from Mound. This is the inventory currently being shipped to the Savannah River Site
- 17 (SRS). As shown in the table below, all 13 waste streams from Mound (identified in TWBIR,
- 18 Revision 2) are accounted for in Waste Stream W027-999-HET.
- 19 Having compared the EPA Hazardous Waste codes between the 1996 and the 2003 reports, five
- codes have been added in the 2003 Update Report. The five codes are D029, D035, D039,
- 21 D040, and D043. These codes were added as a result of Acceptable Knowledge Report
- 22 Development.
- Table DATA-F-C-15 contains the crosswalk of waste streams from TWBIR Revision 2 to the
- 24 2003 Update Report for the SRS.

Table DATA-F-C-15. Savannah River Site Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
T001-221F-MET,T001-221F-VIT, T001-221F-HET	T001-221F-HET
T001-221H-MET, T001-221H-VIT, T001-221H-HET	T001-221H-HET
T001-235F-MET, T001-235F-VIT, T001-235F-HET	T001-235F-HET
T001-772F-MET, T001-772F-VIT, T001-772F-HET	T001-772F-HET
T001-773A-MET, T001-773A-VIT, T001-773A-HET	Т001-773А-НЕТ
T001-773A-CLA	T001-773A-CLA
T003-773A-VIT, T003-773A-HET	Т003-773А-НЕТ
W006-773A-VIT	W006-773A-VIT
W026-221F-VIT, W026-221F-HET	W026-221F-HET

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W026-221H-VIT, W026-221H-HET	W026-221H-HET
W026-235F-VIT, W026-235F-HET	W026-235F-HET

### Table DATA-F-C-15. Savannah River Site Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report — Continued

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
W026-772F-VIT, W026-772F-HET	W026-772F-HET
W026-773A-VIT, W026-773A-HET	W026-773A-HET
W027-221F-MET, W027-221F-VIT, W027-221F-HET	W027-221F-HET
W027-221H-MET, W027-221H-VIT, W027-221H-HET	W027-221H-HET
W027-235F-MET, W027-235F-VIT, W027-235F-HET	W027-235F-HET
W027-772F-MET, W027-772F-VIT, W027-772F-HET	W027-772F-HET
W027-773A-MET, W027-773A-VIT, W027-773A-HET	W027-773A-HET
W027-999-VIT, W027-999-HET, MD-M001, MD-T001, MD-T003, MD-T005, MD-T006, MD-T007, MD-T008, MD-T009, MD-T010, MD-T012, MD-W002, MD-W003, MD-W017	W027-999-HET
W053-773A-VIT	W053-773A-VIT
N/A	T001-WSB-1
N/A	W026-WSB-2
N/A	T001-WSB-3
N/A	W026-PDCF-1
N/A	W026-MFFF-1

#### 2 DATA-F-C-1.18 U.S. Army Material Command

- 3 There were no changes reported for the U.S. Army Material Command (USAMC) waste streams
- 4 with this 2003 Update Report.

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- 5 Table DATA-F-C-16 contains the crosswalk of waste streams from TWBIR Revision 2 to the
- 6 2003 Update Report for the USAMC.

#### Table DATA-F-C-16. U.S. Army Material Command

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
MC-W001	MC-W001

#### 8 **DATA F-C-1.19 West Valley Demonstration Project**

- 9 Four waste streams have been removed from the inventory as a result of recharacterization.
- 10 Final Form inventory has been reduced because of size reduction and repackaging.
- 11 A Remote Handled Waste Facility (RHWF) is being constructed to sort, characterize, size
- reduce, decontaminate and repackage waste currently stored on site. Operations are expected to 12
- 13 begin in the first quarter of FY05. As a result of this new facility, the RH-TRU waste portion of

- 1 West Valley Demonstration Project (WVDP) waste, Final Form, has been reduced. One
- 2 additional waste stream number has been assigned for inventory tracking purposes as a result of
- 3 the RHWF Process. The WV-T021 waste stream is a subset of waste stream WV-T001, Fissile
- 4 Material, as shown in Table F-C-17.
- 5 Three decontamination projects have been initiated and three additional waste stream numbers
- 6 have been assigned for inventory tracking purposes as shown in Table F-C-7.
- 7 Table F-C-17 contains the crosswalk of waste stream from TWBIR Revision 2 to the 2003
- 8 Update Report for the WVDP.

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# Table DATA-F-C-17. West Valley Demonstration Project (WVDP) Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report

TWBIR Revision 2 Waste Streams	2003 Update Report Waste Streams
WV-M005	WV-M005, WV-T019
WV-M007	WV-M007
WV-M008	WV-M008
WV-M010	WV-M010
WV-M012	N/A
WV-M013	WV-M013
WV-M015	WV-M015
WV-T001	WV-T001, WV-T020, WV-T021
WV-T002	N/A
WV-T003	N/A
WV-T004	WV-T004
WV-T006	WV-T006
WV-T009	WV-T009
WV-T011	WV-T011
WV-T014	WV-T014, WV-T018
WV-T016	WV-T016, WV-T018
WV-T017	WV-T017
WV-W041	N/A
WV-Z001	WV-Z001

1 REFERENCES

- 2 Department of Energy (DOE). 1995. Transuranic Waste Baseline Inventory Report, Revision 2,
- 3 DOE/CAO-95-1121, December 1995.
- 4 Department of Energy (DOE). 1996. Transuranic Waste Baseline Inventory Report, Revision 3,
- 5 DOE/CAO-95-1121, June 1996.
- 6 Environmental Protection Agency (EPA). 1998. "Criteria for the Certification and
- 7 Recertification of the Waste Isolation Pilot Plant's Compliance with the Disposal Regulations:
- 8 Certification Decision: EPA Final Rule." Federal Register 63:27353-27406, May 18, 1998,
- 9 Radiation Protection Division, Washington, D.C.
- 10 New Mexico Environment Department (NMED). 1999. "Waste Isolation Pilot Plant Hazardous
- Waste Facility Permit." NM4890139088-TSDF, Attachment B, Waste Analysis Plan. Santa Fe,
- 12 New Mexico.